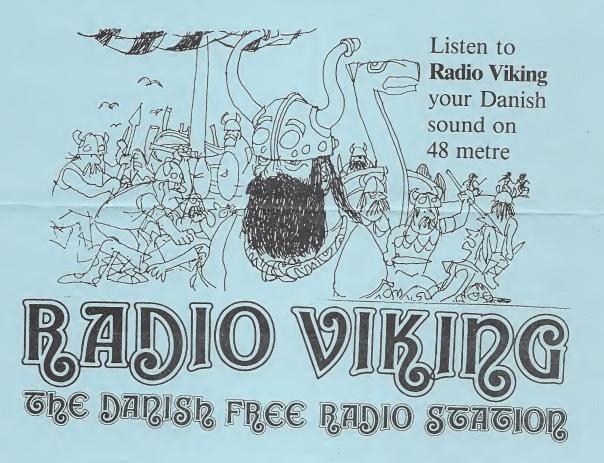
# STEE FEETING JAN/FEB 78 FEETING TO THE TOTAL THE TOTAL TO THE TOTAL T





Details on RADIO VIKING & the RV-T-shirt can be found on P.9!

We wish to apologise for the considerable delay in the publication of this edition of FRF & would like to thank you all for your patience: FRF18 will be out in mid-March. Deadline for contributions(eg;News,logbook, QSL,paper cuttings,articles,letter page etc..) Wednesday 1st March 1978.

### FOCUS NEWSREEL ....

Radio Gloria dj's fined on sparse evidence: On Monday 28th November at Leicester magistrates court Alexander Sager, Dave Mawby, Graham Whale, Geoff Noon & Kieth Butler all appeared facing a number of charges under the Wireless Telegraphy Act, 1949. The court case lasted all day and many Free Radio fans turned up including Nik Catford (Radio Jackie), Chris Cortez, Gary Day & Paul (ARC England) & staff from other Leicester FR stations.

Anthony Brentnall conducted the prosecution for the Home Office(& is their best man at it!) Keith's case was adjourned until 19/12/77. First the good news, Dave Mawby had all charges against him dismissed as the HomO had no evidence against him, they had one witness whilst he produced two witnesses endorsing that he was at home all day on the date in question. Things did not go as well for the others though, Graham Whale of Beaumont Leys in Leicester was found guilty on 1 of 2 charges against him(one charge regarding a transmission on Easter Monday this year wa dropped). He was found guilty though of 'Using a station' on 24/4/77 & was fined(wait for it), £325 including costs. This was his second conviction for illegal transmissions. Alexander Sager of Anstey near Leicester, who is Radio Gloria's station manager faced 4 charges 3 of which were dropped. Alex was found guilty on the one remaining charge & was fined £250 inc. costs even though he had no previous convictions. Alex was never seen near the transmitter but was charged on aiding & abetting as he had said he gave a lift to Graham who had claimed to be DFing the station but was found guilty of using the station, Alex's car was 1 mile from the transmitter when he was stopped & searched by the HomO on 24/4/77.

Geoff Noon was also found guilty of aiding & abetting the station on 24/4/77 & was fined \$250 inc. costs even though it was his first offence. An appeal has been lodged by Mr.Whelton(the defendant's lawyer who is very experienced in this sort of case) on behalf of Graham, Alex & Geoff against the excessively stiff penalties & it is hoped the appeal will be

heard early in the New Year.

The questionable aspect of the whole case is how can any of the defendants be found guilty when none of them were seen operating the transmitter & the WT act clearly states that only someone operating a transmitter is breaking the law(HomO influence on the proceedings?).

One of the good things to come out of the case is that a 15w transmitter is to be returned to them, another good thing is the amount of mass media publicity obtained. An item filmed on Sunday morning by ATV Television of a R. Gloria transmission was shown on Monday evenings edition of "ATV Today" along with details of the court case & on Tuesday morning Graham was filmed recording a programme & Alec was interviewed, this was shown on Tuesday evenings edition of ATV Today. Alec also guested on BBC Radio Leicester's phone-in programme, "Crosstalk" on Tuesday morning where he was again interviewed & questioned by listeners ringing in.

Numerous items also appeared in the local Leicester newspapers!

After the court case, Mr. Parry, Mr. Peace & Mr. Sadler sympathised with the prosecuted over the steep fines & also apologised for taking the photographs used in the court case as evidence without them knowing, they also stated that they had no choice but to raid them due to the regularity & length of the transmissions & also the exceptional quality of the programmes which one of the Homo men said were better than Radio Trent! Meanwhile Radio Gloria has returned & continues every Saturday evening from 10.30pm or 11pm local time on 1196kHz. For full details on the present activity in the Leicester scene see "Landbased Leicester."

Focus Newsreel contd. opposite.

Radio Gloria courtcase. As the report on the previous page was typed in Dec' & this edition of FRF is late in being printed we have details of Keith Butler's court case which was adjourned until 19/12/77. He was found guilty of listening to an unauthorised transmission under the Wireless Telegraphy act 1949 and was fined a massive £5! Radio Caroline. Since the last edition of FRF alot has happened. In Oct and Nov' 1977 Caroline and Mi-Amigo was silent for alot of the time due to storms and genorator failures. Transmissions resumed on 22/11/77 but with the news that Radio Mi-Amigo would use 319m(962kHz)during the day with Caroline on from 18.30-05.00 only, as from 1/12/77.0n the 1/12 at 11.00 on 319, Stuart Russell closed the daytime English service of Caroline & handed over to Mi-Amigo. For the next few days transmissions for RMA went out simultaneouslyon 319m & 212m with announcements every few

seconds on 212 suggesting listeners retune to 319m. After a week the 50kW transmitter was moved onto the 319 channel greatly improving the signal strength. This transmitter is at the moment being run at around 25kW. RMA, have another new set of jingles for the move. In Dec' the Caroline roadshow hit the road in the South-east with DJs; Simon Dee, Rob Eaden & Robbie Day. So far it has visited Margate, Rochester, Westcombe & Tunbridge Wells in Kent & Chelmsford in Essex. At it's first appearance a capacity crowd of 800 was admitted with 500 having to be turned away, according to new Caroline DJ Brian Martin. It has been hinted over the air that the 24hr English Caroline service will return sometime in the future, possibly on 539m,557kHz. Mediterranean Offshore news. Transmissions from the Mebo II resumed on 13/12/77 after a break of a few months. The ship is now off Benghazi, Libya after being moved from Tripoli to Derna. The format of transmission is the usual non-stop music with announcements every thr. The tests are on 6205kHz., 389m & FM. Transmissions close at 21.00.... The Voice of Peace off the coast of Israel recently adjusted frequency from 1540 to 1538kHz and have reportadley increased power to 75kw. Tests are also taking place on SW with 1kw on & around 6240khz. Shortwave Landbased News; Radio Mercury is a new station which will trans -mit irregularly initially, it's first transmission being on 12/2/78 on 6275kHz. Their mailing address is; PO Box 41,7700 AA Dedemsvaart, NL..... Freaks R. which also utilise the Dedemsvaart address say that they will return soon with a new team...R.Sunshine Int are now back on 6235 after moving to 6205 where they were regularly jammed...R.Dynamite will be on the air more regularly on 6240 in '78 following the acquisition of an invertor enabling mobile transmissions....SBRS(Skull 'n' Bones Radio System) was off the air for a few months after initial transmiss ions as their studio was vandalised. They are once again back on the air & broadcast alot over the X-mas period on 6230. They are once again using Radio spot) with Barry Stephens; 10.30-A.J. Beirens(DX prog.); 11.00-Mail Box prog. with Roger Tate; 11.30-German pop show with Rainer; 11.45-Swedish pop show with Tony Scott; 12.00-Close down:: Sometimes at 12.00 an additional prog, Robert Bonds Film themes show, is broadcast. For their December broadcast alone EMR received over 50 reports! Transmitter power is 50watts....Action R., a Dutch station which planned to commence 48m transmissions with a punk rock only format are to start transmissions in early '78 under a different name & with a more varied format. Power will

be 100watts....Radio Partisan will resume transmissions after a break soon with an increased power, 150 watts. They recently accquired two new QSL cards... FORP member station, Radio Zodiac Int inaugerated regular monthly transmissions on Xmas Day 77. Broadcasts will be once a month 

Kobe 658, Japan...

## 4 LANDBASED".

### 1-LONDON

The Final part of our history of landbased Free Radio in London by Ed of R. Celebration.

The Autumn of 1976 saw the close of London Music Radio's VHF service & Radio Jackie transferred their VHF programme to Friday evenings from 10pm—midnight, but unfortunately this did not last very long & by late Autumn the Jackie VHF service closed announcing that it would return in the Spring of '77, nothing came of this though. The medium wave service mean—while had changed broadcast times to 9am—3pm to allow for bad winter reception conditions after 3pm, but by Christmas it was extended to 9am—4pm. At the same time, LMR who were broadcasting alongside Jackie to South West London decided to change their broadcast area to South East London & by the end of '76 had established a regular service on 222m from 10am—3pm on Sundays.

Over the Christmas period Jackie were operational with three days of almost continuous programming, they were raided once by the police but in the true spirit of Christmas were allowed to carry on! Radio Invicta & MRR also did extended transmissions over Christmas but LMR suffered a nasty raid by the HomO, all the equipment was lost as it was left unattend—ed, the LMR team thought it was stolen & pursued the raiders in their car

before realising that it was the HomO:

Early in 1977 a new station was heard operating on 92.4MHz VHF on Sunday evenings from 7-8pm, this was Telstar South with an oldies type format, some of the operators included ex Free London & Sun staff. Over the Easter period transmissions were once again heard from Sun Radio(a regular Satevening operator during 75/76), along with Invicta & Telstar South on 92.4 MHz VHF. Also heard over Easter were Radios 235(Ex Concord/Dynamite operators) & R.239(Ex SRE operators).

Jackie meanwhile continued it's 9-4 Sunday transmissions into '77 with much supporting publicity from the national & local press, TV & radio, covering Jackie's eighth birthday in March. By this time LMR had also ex-

tended transmission hours by 1 hour to 10am-4pm.

With the advent of the Queen's Silver Jubilee, special transmissions were organised for the special Jubilee bank holiday, heard on that day was a "Jubilee Sounds" on 227m & simultaeneously on 92.4MHz, this was the old Radio Tranquility team, also noted was a "Radio Jubilee" from the south-coast. About this time Radio Invicta announced that due to the start of a new specialist soul music programme on national radio they would suspend programming until they thought it necessary to return. (They have recently returned with a regular service on Sunday evenings due to the demise of the aforementioned soul programme!)

During the summer of '77 a Radio Sovereign was heard for a few weeks on Sundays on 266m, 1133kHz, the signal to London was weak though as the station operated from well outside the London area. By early autumn another station, Radio Galaxy was occupying this channel, initially transmissions were irregular but recently they have been on every sunday with an album

format & they have been heard as far away as the Midlands.

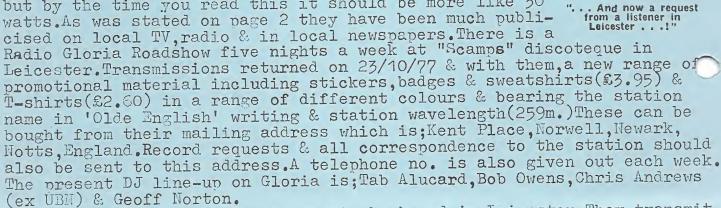
By this time East London Radio had well established themselves, starting transmissions to East London in the early summer providing a community radio station. Transmissions were initially on 201m, plans to use 235m were made & tests carried out but just before the planned opening on this channel a powerful station called Telstar One turned up with a heavy album format. After some feuding over this channel an agreement was reached & ELR now use 221m. This channel of 1358kHz was left empty after LMR closed down due to internal disputes in late summer '77.0ther stations on less regularly were Radio Elaine on 199m on Bank Holidays & Radio Celebration on 235m, 1277kHz & Back Street Radio a punk station on 226m from North London with a very good signal.

Well that's it bang up to date, many thanks to Ed for these superb articles spanning summer 1968-autumn 1977:.....

There has been so much activity in the Leicester area recently on medium wave & VHF that we decided to revive our 'Landbased Leicester' series for one more edition of FRF in which to put it in otherwise it'd fill the news pages if you include details of the Radio Gloria court case which are printed on page 2:

Medium Wave. Despite the stiff penalties incurred at the court case on Monday 28th November, Radio Gloria has returned in style with regular transmissions every Saturday evening from either 10.30pm or 11pm going through till 1.30 or 2am(local time) on Sunday morning. Frequency has recently been changed from 1187kHz to the adjacent

channel of 1196kHz. Recently power has been 12-15watts but by the time you read this it should be more like 30 watts. As was stated on page 2 they have been much publi-



Radio Conquest is a new station to be heard in Leicester. They transmit every Sunday on 1190kHz(253m) from 2pm(local time)onwards.DJs are; Raymond Travers, Robert Kaye. They are affiliated to the LTIR (Leicester Transmitter of Independant Radio) & they use the 'Kent Place' mailing address. In a recent conversation with Homo officials after the Gloria court case the HomO disclosed that they knew the location & names of the operators of R. Conquest! (Watch out Conquest!:) Conquest jingles are very good & have been produced by the group 'Rogue' who have also produced jingles

for Radio Mi-Amigo & the IBA London station, Capital Radio.

Radio Free Leicester has been heard testing with a weakish signal on 1367kHz,219m on Sunday mornings. Transmissions started at 11am but the

signal kept on going on & off. No address was noted.

Christmas Radio will be on again this Christmas in the Leicester area. They will participate along with Radios Gloria & Conquest in providing a continuous 3 day transmission over the holiday period 24 hours per day which has been organised by the LTIR Radio Gloria will kick-off the proceedings at 11pm on Christmas eve(24/12/77) & transmissions will continue non-stop through till Boxing Day. Radio Gloria's wavelength will probably be used throughout. (These plans, unfortunately did not material-VHF/FM.

Things have been as equally active on VHF in the Leicester area recently. The main station heard is Central Radio on 96.7 MHz. They use 10 watts & transmit in stereo. The format is mainly soul music, dj is Franklyn Hughes! Their mailing address is; Universal FR Movement, 366a Thurcaston Rd.,

Leicester. They also give out a phone no.

A Radio Sunrise has been noted recently on VHF but only uses 1watt &

is operated by a group of 13yr old students.

A station playing "phsycadelic" music called Fine Music Radio was heard in October on 95.819MHz but hasn't been heard recently.

Finally an Unidentified station has been heard in Leicester on Sat. afternoons from 2pm on 96.4MHZ with continuous music. The station though is causing interference to both R. Trent & R. Derby on adjacent channels.

Also the LTIR plan to start a stereo FM service in January. Things have not been as active as this since the start of FR in the area in '68!!!

LOGBOOK. Key; E=England/English.D=Dutch.G=German/W.Germany.F=Finnish.P=Popmusic.A=Album tracks.O=Oldies.Te=Test transmission.S=Soul music.T=Tradit-ional music.DX=DX/FR news.L=Letters.Fo=Format.WL=Where logged.R=Reggae.

)R. Partisan......3/9....6220....09.55....2;4;3;3;2; 

 37) We State R. Data II.
 25/9
 6250
 09 10
 2;2;2;2;2
 E/A
 E

 39) R. Viking
 25/9
 6225
 09 30
 3;4;4;4;4;4
 E/P
 E

 40) R. Casablanca
 25/9
 6283
 09 55
 2;4;2;2;2
 D/P
 E

 41) R. Zodiac Int'
 25/9
 6225
 10 30
 3;3;2;2;2
 E/A
 E

 42) R. Santana
 25/9
 6252
 10 30
 3;3;3;3;3
 E,D/P,O
 E

 43) R. Sunshine Int'
 25/9
 6205
 10 40
 2;2;3;2;2
 E/P
 G

 44) R. Valleri
 25/9
 6205
 10 40
 2;2;3;2;2
 E/P
 E

 45) R. Solent City
 25/9
 6202
 5
 10 45
 2;3;3;2;2
 E/P
 E

 45) R. Solent City
 25/9
 6280
 10 50
 3;4;4
 4;4
 4;6
 E

 49) F. R. B. C
 2/10
 6240
 11 35
 1;3;3;2;2
 E/A
 E

 49) F. R. B. C
 2/10
 6260
 11 45
 3;4;3;3;3;4
 E/A
 E

 50) Radio 62
 2/10
 6250
 Continued opposite...

& Logbook continued from previous page. 127)R.Sunshine Int'....11/12...6235....11.00....4;4;4;4;4;...E/P.....E. 131)Westside R.Dublin. 18/12. . . 6210. . . . 10.55. . . . 3;3;4;4;3; . . E/P. . . . E. . 132)R.Sunshine Int' . . . 18/12. . . 6235. . . . 12.05. . . . 4;4;4;3;4; . . E/A. . . E. That brings the 48mb logbook up to date, we'll carry on from 1/1/78 in FRF18 which will be out in mid-march. Deadline date for contributions to the logbook(& also news pages, QSL, letters page etc...)=Wed. 1/3/78!!

The reason for it being so long in this edition is that there has been The reason for it being so long in this edition is that there has been an unusually long gap since FRF has been printed!

Addresses; 1,5,26,30,32,36,97,112)PO Box 41, Dedemsvaart 7700AA, NL::2,6,8,9,14,18,19,21,23,27,29,31,38,44,48,51,54,55,61,64,66,72,73,76,80,81,85,86,87,91,93,96,101,102,104,106,110,116,117,119,122,124,128,130,141)134, Eastworth Rd., Chertsey, Surrey, UK::3,7,15,16,17,24,25,42,63,78)PO Box 218, Almelo 7600AE, NL::4,41,125,133,136,137,142)13, The Chase, Crawley, W. Sussex, RH10-6HW, UK::10,58)42, Arran Close, Cambridge, UK::11,22,37,47,59,67,74,84,94,103,115,120,126,131,138)53, Charleston Rd., Dublin 6, Ireland::12,88,105,135)6, Farm Way, Bushey, Watford, Herts, UK::13,20,33,35,39,43,45,46,49,52,53,57,62,65,70,71,75,77,82,83,92,95,98,100,107,109,111,114,118,121,123,127,129,132,134,139,140)Kent Place, Norwell, Newark, Notts, UK::28,40)PO Box 428, Almelo 7600AE, NL::34)c/o Heinz Balser, D-6300 Lahn 1, Postfach 5223, FRG:: 



"SKULL AND BONES RADIO SYSTEM"

If you have any attractive Free Radio QSLs please contact the editor. All cards are returned after use.

Space permitting the QSL log will return in FRF18,so send yours in before the deadline date for frf18 which is; Wed, 1/3/78.

\*\*\*\*\*\*

| SKULL       | AND   | <b>BONES</b> | RADIO |
|-------------|-------|--------------|-------|
| To: Mark Do | zzeni | S1           | STEM  |

10:30 Am till 13:00 pm

FREQUENCY: 6220 KHZ

OUTPUT POWER:

WITH THANKS AND BEST WISHES!



Focus Newsreel continued from page 3... (Times=GMT/Freqs=khz.) SW Landbased News cont'd.; Britain R.Int. resumed transmissions on 6/11/77 after a break. On 13/11 BRI did a combined transmission with R. Solent City. BRI transmitted on 7245 with 70watts between 09.45 & 10.15 then on 6280 with Solent City & finally for 12hrs on medium wave..... ...KOL Europe is to return soon on 6275kHz having already tested on a Saturday morning. Dis are Alexander Richards & Jackie Levis and programme format will be mainly current affairs. The 13, The Chase... address will be used... FRBC (Free Radio Broadcasting Company) is the latest name that RNI/Sovereign/Vicky is using on 6214.5kHz with nearly 1kw of power although 6kw is claimed. They were raided on 27/11/77 by Home Office pirate detector Ron Parry! No one was caught. The Dedemsvaart address is used ... . FORP member station Tower R. was raided on 18/9 at 12.30 by the German GPO.All the staff escaped but a 20w transmitter was taken. They say however that they will continue but badly need DJs and especially German help. You can contact the station via 13, The Chase etc ... Radio Viking is a new Scandinavian station broadcasting every Sunday on either 6225 or 6240. Their schedule is; 09.00-Oscar Hansson; 09.30-Poul Anthony; 09.45-DX news with John S; 10.00-Poul Anthony again; 10.30-S/Off. R. Viking send out very nice stickers, QSL cards, publicity cards & they also have their own magazine with photos of the station in. It costs 2 IRCs from their mailing address; Radio Kent Place, Norwell, Newark, Notts, Eng. They also Viking have a very good T-shirt available (the design of which is on the front cover) in red & black

& costs 30Danish kroner....Another Scandinavian station is Radio Flamingo which has

been logged in Finland on 6235kHz in November '77 ... Staying in Scandinavia R. Galaxy & R. Domingo are two stations using the following address; PO Box 562, DK-6700 Esbjerg, Denmark. Galaxy have been on the air a couple of times in '77 over the transmitters of R. Poseiden Int' & Tower R. They are now looking for a transmitter of their own & if you can help, write to the aforementioned address! R. Domingo meanwhile is a new station which opened on 9/12/77. Regular transmissions will be on either 6210,6230 or 6240 with 60watts although they have tested on 6285 ... R. Kaleidoscope 2 was heard on 18/9 on 6225 at 10.15 in West Germany with pop music & German IDs. Their address; c/o Heinz Balser, Postfach 5223, D-6300 Lahr 1, things organised & equipment overhauled. Let's hope ABC get back on again soon! Meanwhile the "ABC England Pirate Radio Directory" has been printed & is available for 10p+large SAE or 2IRCs for Europe. It contains a history of ABC Eng', an article on Freq' spacings & standards, an alphabeticallisting of European 48mb stations, British MW/FM stations & Dutch stations. Also the present offshore stations & FR publications are listed! ....Skyport R. returned to the air on 6260 on 26/12 after a couple of months off the air. Transmissions are once again on every Sunday from 10-13.00hrs....R.Corsair is at present off the air but will return around Easter. Both Skyport & Corsair use the following address; 134, Eastworth Rd,

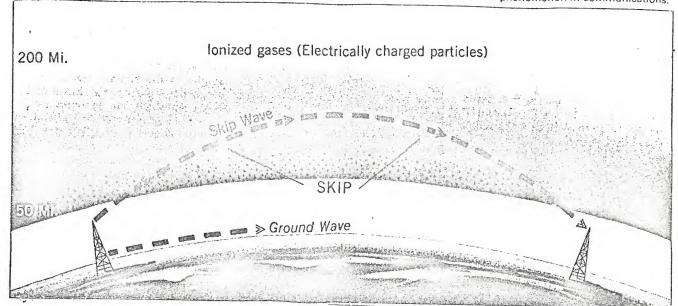
East London R. after a feud with Telstar 1 over who should use 235m(1277) have moved to 1511(announced as 201m). Their present schedule is; 11-Sweet music(Brian Burnett/Ivor Biggen):12-Golden Oldies(Steve Anthony/ Paul Jones):13-Top 40 Countdown(Dela Ware/Roger Davies):14-Rock Show (Norman Spencer/Crispian McTavish):15-ELR Requests(Alec Kilton/N.Spencer) 16.00-Close: Community news on the hour every hour with Paul Jones & Nevada Smith. (DJs in brackets alternate each week ELR's mailing address is;83, Connington Crescent, Chingford, London E4. Newsreel contid Overpage!

MW/FM News cont'd...LONDON.. Telstar 1 have been broadcasting regularly on approx' 235m until 4/12/77 when they went crystal controlled & they now broadcast exactly on 235m, 1277khz. Previous to this they had refused to change freq' slightly despite ELR & R. celebration both wanting to use this channel & having crystals for 1277. Things have now been sorted out & EIR have moved to 1511 & Celebration move one channel up to 1286.Telstar 1's address is;16, Brett House, Coopers Walk, Cheshunt, Herts. T1 should not be confused with T South which is a very proffesional FM station... .... R. Celebration will commence regular transmissions in early Feb! on 1277 if it is empty or if not, 1286. They broadcast to Northwest London. Their mailing address is; 35, Lowry-Cole Rd., Sprowston, Norwich, Norfolk.... ... Radio Galaxy is heard regularly on 266m, 1133 from 10.30-3.30 on Sundays of course. The transmitter is only 20watts but has been heard as far west as Bristol & as far north as Sheffield! Programmes are produced from a converted disco-console & DJs are; Tony Dene, Mark Roberts, Richard Marshall, John Mason, Chris Barrett, Paul Douglas & Steve Knight. The address is; 27, Coronation Villas, Aylesbury, Bucks. They send out very nice bright green & black stickers...Kountryside R. is a new station from south of London that will start soon on(wait for it!!)235m,1277!DJs are Robert Rolf & Terry St. John, their address; 13, The Chase, etc..... Radio Jackie were featured on London Weekend Television on Sunday on 8/1/78. The prog'was a special edition of "The London Weekend Show" introduced by Janet Street Porter about community radio. The first half was on a factory radio network(United Biscuits Network) & the second half on the big J!! It included interviews with Nik Catford (Mike Knight) & Abie Cohen. Meanwhile Jackie plug away into their 9th year every Sunday on 227m, 1331. They have not suffered a HomO/GPO raid for months although on the 4/12/77 they were raided by police & several names & addresses were taken. The present prog schedule is: 9-Terry James: 10-Dave Stevens: 11-Richard Jackson: 12-Phil Hazledon: 13-Tony (Muscular?!) bond: 14-Dicky Allen: 15.00-Close... .... Over X-mas in London, Radios Jackie, East London & Telstar 1 did extended transmissions, also heard over the festive season were Galaxy & on FM, Invicta & Telstar South...On FM in London the following stations have been heard recently; Radio Invicta on 92.4MHz on many occaisions in stereo, the format as usual is exclusively soul music ... . Radio Activity were logged on 28/11/77 on 92.6MHz at 22.30 using LMR's address which was; 19, Newport Ct., London WC2. (LMR incidentally have ceased transmissions, a sad loss of a very proffesional & regular station.)....North London R., were logged on 18/11/77 on 92.1MHz...At the beginning of December a station called R.Mayflower was logged at 07.35 & 19.00 on 92Mhz.. ....SOUTH MW/FM....Radio Kathy has been logged several times in Southampton during November & December '77 on 227m. with DJs Bob Price, Dave Collins & Chris Edwards. Reception most times were good. Tx power is 15w. The station slogan is, "Free sound of the Solent." A telephone no. & an address was given out in Ryde, Isle of Wight. Following a transmission on 30/10/77 there was a short test on 227m from R.Sovereign....R.Solent City were heard on 20/11/77 on 266m, 1130.5kHz again in Southampton with DJ Mike Jay. Reception was good & sign off was at 10.25hrs.... ... EAST ANGLIA FN.... FM-96 started transmissions to East Anglia on 11/9/77 on 96.1MHz, initially from 10-11.00hrs but later hours were extended. Format was singles & album music (mainly American releases) presented by DJ John Stevens. The address; Kent Place, Norwell, Newark, Notts, Eng. On 11/12 at 11.52 "FM-96" was raided in Fordham (near Newmarket). The P.O. first went to the house where the aerial was but eventually found the transmitter next door ... EAST MIDLANDS MW ... R. Galaxy (another one!) were on the air in Oct' 77on 215m, however when the operators returned to the site where the tx was hidden in Nov. they found it mutilated, they should be back on the air soon though. Address is; c/o 13, The Chase, etc..... ... CHESHIRE FM/MW...R.Free Cheshire was logged in Nov on 1367 announcing a power of 40watts, they also said that they would be on in December using a 400w transmitter on 98Mhz...UNIVERSITY RADIO...The University of York station was put off the air by the home office for putting out too many harmonics but hoped to be back on the air for this term.

PLEASE NOTE: Wanted, someone to take over as CB Editor, please contact editor.

# trouble for CB'ers? all about skip

Early researchers discovered an electrical "mirror" that could cause radio waves to bounce or "skip" over vast distances past the horizon. Called the Kennelly-Heaviside layer, it was to become a well-known and well-used phenomenon in communications.

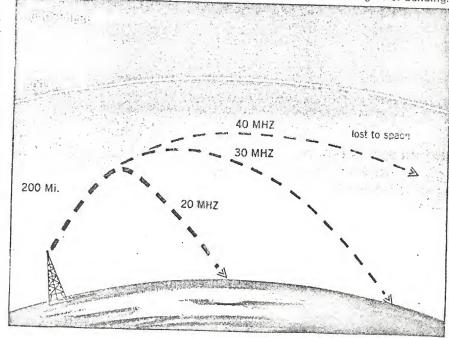


#### More sunspots coming

As you read this, the sun is emerging from a dormant period and sending out a few tentative spots. Minor eruptions called solar flares, now being spotted, are considered an omen that the bottom of the sunspot cycle has passed. From a low point in 1975-76, the cycle should generate scores of new sunspots with each year until the peak occurs—sometime around the year 1980.

This will have a profound effect on CB. This year, CB will not skip consistently because its 27-MHz frequency is still above the MUF. Feeble solar activity at present doesn't allow a CB signal to develop a sufficiently acute angle to return to earth. But as sunspots increase, they will inflate the MUF until it exceeds 27 MHz. When that happens, you could have global communications on a five-watt CB signal. Not only will the signal hop an average of 1000-2000 miles, but possibly bounce a second time for a multi-hop transmission. It could take your signal around the world.

The higher the frequency, the less it bends. Sunspots affect the degree of bending.



N INEFFICIENT CB antenna system can easily waste more than half of the total power your transmitter pumps into it. Such losses could reduce your range by 50% and eliminate much of the punch you should get from your CB rig. To help you understand why, here are the most important antenna concepts described in plain language that doesn't require an engineering degree to understand. You should be able to use this information to improve your own antenna systems.

The maximum legal output power at a CB transceiver's antenna jack is four watts. Most modern transmitters actually produce an acceptable 3.5 to 3.9 watts when properly installed. It should be evident that all possible steps must be taken to minimize transmission line and antenna losses so that most of that power is transformed into the electro-magnetic radiation we call radio."

The antenna must be "tuned" to resonate at the proper frequency and the transmission line must be "matched" to the input impedance of the antenna. Otherwise, some of the power will be reflected back along the transmission line towards the transmitter and be dissipated as heat. In fact, if enough of the power is reflected, the transmitter may actually be damaged.

Standing Wave Ratio. The most common measure of antenna efficiency is expressed as a ratio of the power supplied to the antenna divided by the power reflected back to the transmitter. This measurement is called the Standing Wave Ratio (SWR). The Standing Wave Ratio of the perfect antenna system would be 1:1, but no antenna is perfect and any SWR of 2:1 or less is exceller. A ratio of 3:1 or less is acceptable. If the ratio is 10:1 or more, there is probably a short or an open circuit somewhere in the system, the antenna needs tuning or you are

not using the proper type of transmis-. sion line. Radio-frequency power is difficult to measure accurately and those meters that can separate the forward and reflected power and then measure them accurately are prohibitively expensive. But we get a fairly accurate relative indication of SWR by measuring either the voltage or the current at a particular point in the transmission line, and displaying the peak value on a low-cost dc microammeter. A reflectometer or SWR bridge is a low-cost meter which allows you to make such measurements readily. It should always be used when the antenna is installed, and again at intervals of six months or so. This will insure that your antenna continues to operate at top efficiency. The SWR bridge should be accepted for what it is, but many people place absolute faith in its readings. Most of these devices measure only the relative voltage peaks at the point in the line where they are inserted. When an r-f transmission line is mismatched and an SWR exists, the voltage and current in the line vary with line length. Accordingly, the SWR bridge can give different readings at different points along

So when your CB buddy tells you that you can improve your SWR by installing a 12-foot transmission line, he is actually telling you how to improve your meter reading. But the actual SWR cannot be affected by changing the length of the coax. However, due to an entirely different effect, a transciever will work better with some line lengths than with others if there is a high SWR on the line! In any event, both these conditions are symptoms of a mismatch.

To use the SWR bridge, its terminal marked "transmitter" should be connected to the transmitter's antenna terminal through a short piece of coax with the proper coax connectors on both ends. The "antenna" terminal on the bridge is connected to the trans-

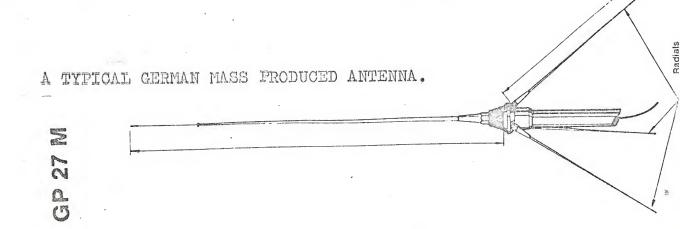
mission line. With the "forwardreverse" switch in the FORWARD position, key the transmitter and adjust the SENSITIVITY control so the meter needle is at the full-scale position. Now switch the bridge to the REVERSE position and key the transmitter again. Most SWR bridges are calibrated to read SWR directly, but no matter—you should tune your antenna for the lowest possible REVERSE reading. The reading you get is only relative and probably does not represent an accurate SWR.

However, if the reading is much above 2:1, turn off the transmitter immediately before it is damaged. Disconnect the transmission line at both ends and use an ohmmeter to check it for continuity and for no shorts between the braid and inner conductor. If the line is OK, the problem is most likely in antenna tuning. Check the antenna and be certain it is properly in stalled. (Unless you really know what you are doing, you should always buy a commercial antenna.)

Take SWR readings at several different frequencies across the band. Determine, if possible, at which frequency it appears the lowest. If the SWR is at its lowest at one of the low channels (1 or 2), the antenna is too long and should be shortened. (Most mobile antennas have provision for adjusting the length somewhat.) If the lowest SWR appears at the highest channel number, the antenna is too short. The antenna should be tuned until the lowest SWR appears close to channel 13, the center of the Class D band

If you have checked all connections and tuned the antenna carefully yet still cannot get the SWR less than 3: it is probable that you have failed to establish an effective ground plane for the antenna.

Next Month save over £30 details on building a (G.P.) "Ground Plain Antenna"



# OFFSHORE RADIC TRAGEDIES

Radio Invicta announce the deaths of Tom Pepper, Simon Ashley and Barry Hoy 3 men who were drowned after what was thought being shipwrecked returning ashore from Red sands fort. Radio Caroline mutiny recorded on 28.12.72. Andy Archer trying to present his programme and is supposedly hit over the head, causing a record to jump, 199 transmissions cease. The Dutch naval deystroyer "Limburg" was on the scene and on the "Mebo 2" RNI Robb Eden was playing records for the Dutch navy. TV interview Ronan O'Rahily, talks of Caroline and the mutiny.

Calls for assistance from Tony Allen the motor vessel "Moon Raker" is stranded in rough weather on the 1.9.74 while mayday calls from Norman Barrington on the 18.1.74 as the Mi Amigo has a fire in her engine room.

One year later on the 8.11.75 at 7.28pm Simon Barrett is heard broadcasting from

a sandbank somewhere in the Northsea? The Mi Amigo adrift, somewhere near the Knock Deep off the Kent coast, all the action and highlights recorded between 7.28-10pm including the Mi Amigo entering

News flashes from BBC-ITN-LUX etc. Caroline returns with Simon Barrett

thanking everyone concerned.

Radio Northsea International fire bomb attack. Listen to mayday calls as the Mebo 2 is on fire and in danger of blowing up, dj's panic as the fire spreads and calls to abandon ship, broadcasts continue and Captain gives out position of ship. Fascinating news reports of events that took place. RNI returns with reports of damage to the radio ship Mebo 2. Interviews from station staff and dj's. TV news at 10 announce the arrest of 3 forgmen who blew up the engine room.

Radio Northsea International hijacking dj's appeal for help as the Northsea mafia try to cut the anchor chain and force the Mebo 2 into port, calls for danger as the tug Huskie threatens to use a water cannon on the high powered aerial masts aboard the Mebo 2 help arrives and the heavy gang make their getaway. Reports from dj's and station manager, recorded on the 29.8.70. Note RNI bombing and hijacking are extended versions not available elsewhere.

Radio Hauraki shipwreck. Mayday calls territorial waters and the Home Office raid. as the Tiri l drifts into rough seas and crashes onto the rocks, listen to the pounding of the wooden ship, siren

unds to abandon ship.

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75 MINUTES PRICE £2.00. SOUNDS THAT EXCITE A REAL BUCCANEERS DELIGHT.

Both tapes are unavailable elsewhere and contain recordings which highlight the dangers of operating a radio station on the high seas. News items are of particular intrest and not normally heard from free radio recordings.

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WHAT THE PAPERS SAY.

In no.16 we stated that this column would feature cuttings on the arrest & prosecution of Peter Chicago (Caroline transmitter engineer) last September, this will now appear in frf18 & this one will feature the ordeal of John Jackson Hunter who used to run the Caroline roadshow in Liverpool & was imprisoned in October for not paying his £500 fine. This fine & a suspended 3 month prison sentence was dished out for displaying a Caroline sticker in his car. He hopes to appeal against this gross injustice to the Court of Human rights in Strasbourg. We wish John the very best in his fight against this excessive beaurocratic law.

THE SUN. Dec'77.

NEW MUSICAL EXPRESS.Dec 177.



By WILLIAM MARTIN

A DISC jockey jailed for failing to pay £500 court costs is planning to appeal to the International Court of Human Rights in Stras-

bourg.
John Edward Jackson
Hunter, who displayed a
Radio Caroline sticker on
his car windscreen, is to
aspeal against his conviction under the Marine

appeal against his convition under the Marine Broadcasting Offenees Act of 1967. It bans publicity for pirate radio ships.

Jackson Humer was given a three-month fail sentence, suspended for two years, at Liverpool Magistrates' Court.

But last month he was jailed for 60 days for refusing to pay costs.

Last night, as he faced spending his 20th birthday and Christmas in jait, his friends issued a statement in his name.

It claimed that parts of the Act are a violation of the Universal Declaration of Human Rights.

And it said the prosecution was a "blatant disregard" of the declaration.

tion.
One of Jackson Hunter's friends. Mr Gerry Cornelius, of Liverpool, said: "He is determined to appeal."

Jackson Hunter was the

disc jockey of a mobile disco the Radio Caroline Road Show.

He was accused of dis-

playing a sticker saving "Sound of the nation—Radio Caroline. Tune in to 259 metres."

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### WE STILL LOVE THE PIRATES



MAN IMPRISONED for his belief in free radio began a hunger strike in Walton Prison, Liverpool, Last month.

The prisoner, a Merseyside DJ by the name of John Jackson-Hunter, was originally convicted in May 1976. His crime? Displaying a Radio Caroline sticker on his car windscreen. For this offence, Liverpool City Magistrates imposed a suspended sentence of three months imprisonment plus £500 costs.

Jackson-Hunter refused to pay the £500, and began a 60-day prison sentence in October. He immediately went on hunger strike.

All that, for one little sticker? . . .

Jackson-Hunter was charged under the Marine Etc. Broadcasting (Offences) Act of 1967, which makes it an offence not only to broadcast, but also to promote the interests or publish the broadcasting details of an illegal radio station. The car sticker told the world what frequency Radio Caroline operates on. That was all - but it was enough to make John guilty of "publishing and promoting" the outlawed

Jackson-Hunter had also been operating a "Radio Caroline Roadshow" disco in a local hotel - but he was not charged with any offence in connection with it. (The hotel manager, however, had previously been convicted of displaying a poster

that advertised Radio Caroline).

As he was put away, Jackson-Hunter issued a statement saying that to pay up "would be defeatism, and a scar on the face of freedom."

He's still incarcerated in Walton, having now dropped his hunger strike at the request of the prison governor. He is hoping to take his case to the European Commission on Human Rights. THRULUS AMY PROSSER

LATE+NEWS:LATE+NEWS:LATE+NEWS:LATE+NEWS:LATE+NEWS:LATE+NEWS:LATE+NEWS:LATE+NEWS:LATE It's good to know that the Home Office (HomO) are cracking down on real pirates & not FR stations, department! Paul Micholson (GSLMD) of Feathers stone, Yorkshire appeared in Sept' at Pontefract magistrates court & pleaded guilty to certain charges under the 1949 Wireless telegraphy act. It was said in evidence that police in W. Yorks were unable to contact their HQ by radio because their VHF frequency had been blotted out by obscenities. 18 yr old Nicholson was fined a total of £120 & his VHF equipment worth nearly £400 was confiscated .... A recent sweep by the authorities in the Manchester area netted quite a large number of pirates who have been operating illegally on the 144MHz ameteur band on both simplex & repeater freqs. A large amount of very expensive equipment was confiscated. One person who regularly jammed transmissions from what he thought was a safe site on private land in Wales was also tracked down successfully... It's interesting to note that the above offences are more serious than those of John Hunter(see top of page)but none received penalties anywhere near as stiff as those given to John!..... Radio Dublin which has been broadcasting for periods of up to 24hrs a time without raids due to a loophole in Irish law staged an open air disco/demonstration on Sat' 21/1/78 in O'Connell street outside the P&T HQ.Dublin DJs made a public appearance (including their attractive female DJ, Sylvia!) in front of the 8,000 crowd!! At Leinster house a petition with 20,000 signitures was handed over demanding R. Dublin be licensed. Meanwhile Dublin broadcast regularly on 253m with 1.5kw. An amendment to the law to make R. Dublin illegal oncemore is being rushed through.

FRF18 out mid-march, 20p+sae, order now!